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UNDERGRADUATE MATHEMATICS CLUBS.

All reports of club activities should be sent to E. L. DODD, Williams College, Williamstown, Mass.

CLUB ACTIVITIES.

AGNESI CLUB OF AGNES SCOTT COLLEGE, Decatur, Ga.

The Agnesi Club was formed at Agnes Scott College, November 28, 1921, at the suggestion of the Departments of Mathematics and Physics. Students in the elective courses of mathematics, astronomy, and physics are eligible for membership. The Club has twenty members. Meetings are held monthly. The officers elected at the first meeting were: President, Mary Barton '22; vice-president, Elizabeth Hoke '23; secretary, Emmie Ficklen '24.

December 12, 1921: "Radium and the X-ray" by Professor Housen; "Agnesi" by Elizabeth Hoke '23. Adoption of the Constitution.

(Report by Miss Ficklen.)

MATHEMATICS CLUB OF BUCKNELL UNIVERSITY, Lewisburg, Pa.

The Mathematics Club of Bucknell University was organized January 28, 1920, through the efforts of Professor H. S. Everett. Active members must have passed all required mathematics, also analytical geometry and one other subject in pure or applied mathematics. Associate membership is open to anyone interested in mathematics. The following officers were elected: President, Sydney Peale '20; vice-president, Elizabeth Spyker Gr.; secretary-treasurer, Grace Poust '22. The following papers were presented:

January 28, 1920: "Non-Euclidean world" by Professor W. C. Bartol.

February 11: "How x came to be used as an unknown" by Lillian Russell '23; "Two applications of the spiral of Archimedes" by Robert Haberstroh '23.

February 25: "Trisection of an angle" by Irvin Holmes '20.

March 10: "Trisection of an angle—continued" by Irvin Holmes '20; "The quadrature of the circle" by Clara Casner '21; "The duplication of the cube" by Elizabeth Weidner '21.

April 7: "Famous mathematicians" by Professor Everett.

April 26: "Probabilities" by Sydney Peale '20.

For the year 1920–21, the following officers were elected: President, Elizabeth Weidner '21; vice-president, Leonard Worthington '21; secretary-treasurer, Elsie Watson '21; critic, Professor J. S. Gold. Papers were presented during the year as follows:

November 1, 1920: "Magic squares" by Professor C. A. Lindeman, of the Department of Engineering.

November 15: "Paper folding" by Kathryn Kimble '23; "Something about zero" by Grace Fry '22.

December 6: "Number puzzles" by Professor Gold.

January 17, 1921: "The planimeter" by Chester Derck '22; "Mechanism for solving a cubic" by Paul Mallay '23.

February 14: "Diophantine analysis" by George Lowry '20.

February 28: "Numerical results for diverse systems of breeding" by Professor F. N. Davis, of the Department of Biology.

March 14: "Use of logarithmic paper" by Leonard Worthington '21.

April 11: "History of codes and ciphers" by Clara Casner '21; "Non-Euclidean geometry" by Professor Everett.

April 18: "Codes and ciphers" by Elsie Watson '21; "A play—The Flatlanders"; "The fourth dimension" by Professor Everett.

April 25: "Einstein's theory of relativity" by Professor Everett.

For the year 1921–22, the following officers were elected: President, Chester Derck '22; vice-president, Grace Poust '22; secretary-treasurer, Kathryn Kimble '23. Programs were presented as follows:

October 10, 1921: "Sir Isaac Newton" by Professor Bartol.

November 14: "Euclid's life and works" by Grace Poust '22; "Archimedes' life and work" by Chester Derck '22; "Life and work of Apollonius" by Ethylwynne Smith '23.

December 12: "Mathematics in colonial times" by Leona Dickrager '22; "Alice in the Wonderland of mathematics" by Nina Grace Smith '23; "Numerical curiosities" by Philip Campbell '22.
January 16, 1922: "Cardan's solution of the cubic" by Professor Lindeman.
February 13: "Life and works of Descartes" by Ruth King '22; "Life and works of Newton" by Nellie Balliet '22.
March 13: "Projective geometry" by Professor Gold.

The number of members each year has been about 40; and the average attendance about 25. In the fall and in the spring also there is a social party.

(Report by Miss Kimble.)

THE MATHEMATICS CLUB OF GOUCHER COLLEGE, Baltimore, Md.

[*1918*, 357; *1919*, 365; *1921*, 274; *1922*, 26.]

Meetings during the second half of 1920–21 were held as follows:
March 3: "Human calculating prodigies" by Grace McCaulley '23; "The theory of Amsler's planimeter" by Katherine Wisner '21.
April 7: "A new theorem concerning three circles" by Henrietta Morris '23; "Proof that an angle cannot be trisected by ruler and compass" by Eva Lazarus '22.
April 24: "History of the theory of numbers, with illustrative problems" by Dorothy Biscoe '22; "The fallacy in a recently proposed method of trisecting an angle by ruler and compass" by Mildred Brown '21; "Rules for checking addition, with proofs" by Mildred Trueheart '22.

The annual picnic of the Club took place in May, and was attended by many of its alumnæ members.

(Reported by Professor Lewis.)

THE MATHEMATICS CLUB OF VASSAR COLLEGE, Poughkeepsie, N. Y.

[*1918*, 136, 456; *1919*, 264; *1920*, 78, 427.]

October 21, 1920: A tea was given, to which were invited all who were eligible to membership. The following officers were elected for the first semester: President, Mary West '21; vice-president, Theresa McMakin '22; secretary-treasurer, Alta Teeple '22; executive committee, Professor Elizabeth B. Cowley, Elizabeth Larsen '21.
November 16: "Women in mathematics" by Elinor Hollis '21.
December 9: "History, development, and use of logarithms" by Grace Fenstermaker '21, Mathematical tricks were exhibited by Elsie Stuart '22.
February 24, 1921: The following officers were elected: President, Amy Davison '21; vice-president, Theresa McMakin '22; secretary-treasurer, Alta Teeple '22; executive committee, Professor Cowley, Elizabeth Larsen '21.
March 17: "The Einstein theory" by Elizabeth Larsen '21.
April 28: "Codes and ciphers" by Dorothy Laws '22; "The fourth dimension" by Edith Morrison '22.
May 19: A picnic supper. Charades were played with such words as hypothenuse, perpendicular, and algebra.

(Reported by Miss Teeple.)

PROBLEMS AND SOLUTIONS.

EDITED BY B. F. FINKEL, OTTO DUNKEL, AND H. P. MANNING.

Send all communications about Problems and Solutions to B. F. FINKEL, Springfield, Mo.

PROBLEMS FOR SOLUTION.

[N.B. Problems containing results believed to be new, or extensions of old results, are especially sought. The editorial work would be greatly facilitated if, on sending in problems, proposers would also enclose any solutions or information that will assist the editors in checking the statements. In general, problems in well-known text-books, or results found in readily accessible